



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12N 15/12, 5/10, C07K 14/705, 16/28, A61K 31/70, 38/17, 39/395, A01K 67/027, G01N 33/50, A61P 25/00	A3	(11) International Publication Number: WO 00/22118 (43) International Publication Date: 20 April 2000 (20.04.00)
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(21) International Application Number: PCT/EP99/07604**(22) International Filing Date:** 11 October 1999 (11.10.99)**(30) Priority Data:**

198 47 064.9

13 October 1998 (13.10.98)

DE

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CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE).**Published***With international search report.***(88) Date of publication of the international search report:**

13 July 2000 (13.07.00)

(54) Title: NON-DESENSITIZING AMPA-RECEPTORS**(57) Abstract**

The present invention relates a glutamate receptor of the AMPA-type which functions as a non-desensitizing AMPA-receptor or as a non-desensitizing subunit thereof, wherein the leucine corresponding to position 497 of the wildtype rat AMPA-receptor FluRflip, or the leucine at the equivalent position in other glutamate receptors of the AMPA-type, is replaced by an aromatic amino acid.